Serial No. 10/054,409 Art Unit: 2817

IN THE CLAIMS:

Kindly amend claims 1 and 9, cancel claims 5, 10 and 11, and add new claim 17, as follows:

A

- (Currently Amended) A switch arrangement, comprising a MEMS switch connected
 to a voltage supply system, said MEMS switch having a mechanical resonant
 frequency, and said voltage supply system having a capability for supplying a voltage
 with a frequency corresponding to said mechanical resonant frequency, said voltage
 supply system including a control circuit connected to a voltage supply.
- (Original) The switch arrangement as claimed in claim 1, wherein said MEMS switch includes a movable part having said mechanical resonant frequency.
- 3. (Original) The switch arrangement as claimed in claim 1, said MEMS switch including a first electrode spaced from a second electrode, and further including a movable part, said movable part including said second electrode.
- 4. (Original) The switch arrangement as claimed in claim 1, said MEMS switch including a first electrode spaced from a second electrode, and further including a movable part, said movable part including said second electrode, said voltage supply system being connected to said first electrode and to said second electrode.
- 5. (Canceled)

Serial N . 10/054,409 Art Unit: 2817

Cout.

- 6. (Original) The switch arrangement as claimed in claim 1, wherein said MEMS switch further comprises pairs of electrodes, and wherein said voltage supply system comprises:
 - a voltage supply having an input and outputs, said outputs being connected to a first pair of said electrodes;
 - a logic gate having at least one input and an output, said output of said logic gate being connected to said input of said voltage supply;
 - a first comparator having an input and an output, said output of said first comparator being connected to said at least one input of said logic gate;
 - a differentiator having an input and an output, said output of said differentiator being connected to said input of said first comparator, and
 - a capacitor detector having inputs and at least one output, said at least one output of said capacitor detector being connected to said input of said differentiator, said inputs of said capacitor detector being connected to a second pair of said electrodes.
- 7. (Original) The switch arrangement as claimed in claim 6, wherein said capacitor detector has a second output, said logic gate has a second input, and wherein said voltage supply system further comprises a second comparator having an input and an

Serial N . 10/054,409

Art Unit: 2817

th cont

output, said output of said second comparator being connected to said second input of said logic gate, and said input of said second comparator being connected to said second output of said capacitor detector.

- (Original) The switch arrangement as claimed in claim 6, wherein said logic gate is an OR gate.
- 9. (Currently Amended) A method, comprising:

providing a MEMS switch including a movable part, the movable part having a mechanical resonant frequency, and then

supplying an AC voltage to the movable part, the AC voltage having a frequency corresponding to the mechanical resonant frequency of the movable part, further comprising moving the movable part responsive to said supplying step, and detecting motion of the movable part and then varying the AC voltage of said supplying step responsive to said detecting step.

- 10. (Canceled)
- 11. (Canceled)

FI\$920010238US1

Serial N . 10/054,409 Art Unit: 2817

COUT.

- 12. (Original) The method as claimed in claim 9, wherein said providing step comprises providing a MEMS switch of a cantilever type.
- 13. (Original) The method as claimed in claim 9, wherein said providing step comprises providing a MEMS switch of a bridge type.
- 14. (Original) The method as claimed in claim 9, wherein the frequency equals the frequency of the mechanical resonant frequency of the movable part.
- 15. (Original) The method as claimed in claim 9, further comprising supplying a DC voltage to the movable part.
- 16. (Original) The method as claimed in claim 9, wherein the frequency of the AC voltage is a frequency in a range from approximately one KHz to approximately 100KHz.
- 17. (New) A switch arrangement, comprising a MEMS switch connected to a voltage supply system, said MEMS switch having a mechanical resonant frequency, and said voltage supply system having a capability for supplying a voltage with a frequency corresponding to said mechanical resonant frequency, said voltage supply system including a control circuit.